

Hui Guo

List of Publications by Year in descending order

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75
papers

662
citations

623188

14
h-index

676716

22
g-index

76
all docs

76
docs citations

76
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Roughness modelling based on human auditory perception for sound quality evaluation of vehicle interior noise. <i>Journal of Sound and Vibration</i> , 2013, 332, 3893-3904.	2.1	53
2	A normalized frequency-domain block filtered-x LMS algorithm for active vehicle interior noise control. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 150-165.	4.4	40
3	An engine-fault-diagnosis system based on sound intensity analysis and wavelet packet pre-processing neural network. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 94, 103765.	4.3	40
4	Sound quality recognition using optimal wavelet-packet transform and artificial neural network methods. <i>Mechanical Systems and Signal Processing</i> , 2016, 66-67, 875-892.	4.4	38
5	Numerical simulation and experimental validation of ultrasonic de-icing system for wind turbine blade. <i>Applied Acoustics</i> , 2016, 114, 19-26.	1.7	36
6	Nonlinear analysis of the car-following model considering headway changes with memory and backward looking effect. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 562, 125303.	1.2	31
7	Topological design of square lattice structure for broad and multiple band gaps in low-frequency range. <i>Extreme Mechanics Letters</i> , 2020, 35, 100632.	2.0	28
8	Vehicle interior noise active control based on piezoelectric ceramic materials and improved fuzzy control algorithm. <i>Applied Acoustics</i> , 2019, 150, 216-226.	1.7	26
9	An improved LMS algorithm for active sound-quality control of vehicle interior noise based on auditory masking effect. <i>Mechanical Systems and Signal Processing</i> , 2018, 108, 292-303.	4.4	21
10	Acoustic behavior prediction for low-frequency sound quality based on finite element method and artificial neural network. <i>Applied Acoustics</i> , 2017, 122, 62-71.	1.7	20
11	Active interior noise control for rail vehicle using a variable step-size median-LMS algorithm. <i>Mechanical Systems and Signal Processing</i> , 2018, 109, 15-26.	4.4	20
12	Design of multilayer sound-absorbing composites with excellent sound absorption properties at medium and low frequency via constructing variable section cavities. <i>Composite Structures</i> , 2021, 266, 113798.	3.1	19
13	Active control for vehicle interior noise based on DWT-FxLMS algorithm using a piezoelectric feedback system. <i>Applied Acoustics</i> , 2020, 167, 107409.	1.7	17
14	Simulation and analysis on electro-magnetic- thermal coupling of solenoid GDI injector. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 46, 775-792.	0.3	16
15	Improved processing and performance of GDI injector based on metal injection molding technology. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 44, 99-114.	0.3	16
16	Topological optimization of hierarchical honeycomb acoustic metamaterials for low-frequency extreme broad band gaps. <i>Applied Acoustics</i> , 2022, 188, 108579.	1.7	15
17	Short-term traffic flow prediction using a self-adaptive two-dimensional forecasting method. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401771900.	0.8	14
18	Research on assembly tolerance allocation and quality control based on fuzzy reliability. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 3755-3766.	1.1	12

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19	Investigation on acoustic energy harvesting based on quarter-wavelength resonator phononic crystals. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401774807.	0.8	12
20	Fluid-sound coupling simulation and experimental validation for noise characteristics of a variable displacement external gear pump. <i>Noise Control Engineering Journal</i> , 2014, 62, 123-131.	0.2	9
21	A hybrid prediction for wind buffeting noises of vehicle rear window based on LES-LAA method. <i>Applied Mathematical Modelling</i> , 2017, 47, 160-173.	2.2	9
22	Effect of Cross-Linking Degree of EPDM Phase on the Morphology Evolution and Crystallization Behavior of Thermoplastic Vulcanizates Based on Polyamide 6 (PA6)/Ethylene-Propylene-Diene Rubber (EPDM) Blends. <i>Polymers</i> , 2019, 11, 1375.	2.0	9
23	Sound feature space effects on the performance of annoyance evaluation model based on support vector machine. <i>Applied Acoustics</i> , 2019, 154, 99-113.	1.7	9
24	A multi-source fusion algorithm for high-accuracy signal reconstruction of vehicle interior noise on passenger ear-sides. <i>Applied Acoustics</i> , 2019, 148, 75-85.	1.7	9
25	Study on broadband low-frequency sound insulation of multi-channel resonator acoustic metamaterials. <i>AIP Advances</i> , 2021, 11, .	0.6	9
26	Topology optimization of anisotropy hierarchical honeycomb acoustic metamaterials for extreme multi-broad band gaps. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3540-3552.	1.5	9
27	Time-domain signal reconstruction of vehicle interior noise based on deep learning and compressed sensing techniques. <i>Mechanical Systems and Signal Processing</i> , 2020, 139, 106635.	4.4	8
28	Hybrid time-frequency algorithm for active sound quality control of vehicle interior noise based on stationary discrete wavelet transform. <i>Applied Acoustics</i> , 2021, 171, 107561.	1.7	8
29	Hardpoint correlation analysis and optimal design for front suspension of a Formula SAE car. <i>Australian Journal of Mechanical Engineering</i> , 2015, 13, 67-76.	1.5	7
30	Hybrid patch near-field acoustic holography based on Kalman filter. <i>Applied Acoustics</i> , 2019, 148, 23-33.	1.7	7
31	Design of ethylene-propylene-diene monomer foam and its double-layer composite for improving sound absorption properties via experimental method and theoretical verification. <i>Polymer Engineering and Science</i> , 2020, 60, 1877-1889.	1.5	7
32	Mechanism of interior noise generation in high-speed vehicle based on anti-noise operational transfer path analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021, 235, 273-287.	1.1	6
33	Electromagnetic noise analysis and optimization for permanent magnet synchronous motor used on electric vehicles. <i>Engineering Computations</i> , 2021, 38, 699-719.	0.7	6
34	Investigation on comprehensive performance of the EFI by MIM technology. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2013, 42, 579-588.	0.3	5
35	Sound Quality Evaluation and Optimization for Interior Noise of Rail Vehicle. <i>Advances in Mechanical Engineering</i> , 2014, 6, 820875.	0.8	5
36	Reliability analysis on the drive system of a gear-type oil pump with variable displacement. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401663880.	0.8	5

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37	Hierarchical square honeycomb metamaterials with low-frequency broad bandgaps and flat energy bands characteristics. <i>Journal of Applied Physics</i> , 2020, 128, 235102.	1.1	5
38	Active control for vehicle interior noise using the improved iterative variable step-size and variable tap-length LMS algorithms. <i>Noise Control Engineering Journal</i> , 2019, 67, 405-414.	0.2	5
39	Study on Measurement System of the Dynamic Performances for an Electronic Fuel Injector. , 2010, , .		4
40	A Control Lyapunov Function Approach to Stabilization of Affine Nonlinear Systems with Bounded Uncertain Parameters. <i>Circuits, Systems, and Signal Processing</i> , 2015, 34, 341-352.	1.2	4
41	Study on band gap properties of two-dimensional phononic crystals based on generalized viscoelastic modeling. <i>Modern Physics Letters B</i> , 2019, 33, 1950403.	1.0	4
42	Parametric Prediction Models of Harvesting Electric Energy Density for Piezoelectric Transducers. <i>Journal of Vibration Engineering and Technologies</i> , 2019, 7, 389-398.	1.3	4
43	Distributed adaptive time-varying formation control for Lipschitz nonlinear multi-agent systems. <i>Transactions of the Institute of Measurement and Control</i> , 2022, 44, 272-285.	1.1	4
44	Analysis for Suspension Hardpoint of Formula SAE Car Based on Correlation Theory. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2013, 06, 4569-4574.	0.1	3
45	Errors in the measurement of transmission loss in a standing wave tube. <i>Noise Control Engineering Journal</i> , 2017, 65, 174-182.	0.2	3
46	Vibration load and transfer path identification of vehicle using inverse matrix method based on singular value decomposition. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020, 234, 1703-1713.	1.1	3
47	Numerical Investigation of Discrepancies Between Two-Dimensional and Three-Dimensional Acoustic Metamaterials. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	3
48	Geometric stability and nitrogen adsorption properties of small BaO _y cluster-modified Ru(0001) surface. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 016802.	0.2	3
49	A theoretical analysis of friction and vibration characteristics of wiper reversal process. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2023, 237, 1327-1337.	1.1	3
50	Study on hybrid LES-LES method for wind buffeting noise control of vehicle rear windows. <i>Noise Control Engineering Journal</i> , 2017, 65, 577-589.	0.2	2
51	Research on Pedestrian Detection Method with Motion and Shape Features. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016, 13, 5788-5793.	0.4	2
52	A fast 3D-MUSIC method for near-field sound source localization based on the bat algorithm. <i>International Journal of Aeroacoustics</i> , 0, , 1475472X2210937.	0.8	2
53	Failure Analysis and Redesign of Coach Seat Recliner Based on FEM. , 2010, , .		1
54	Configuration Synthesis of Side Door Latch Power Release Mechanism. , 2019, , .		1

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55	Multi-field coupling prediction for improving aeroacoustic performance of muffler based on LES and FW-H acoustic analogy methods. <i>International Journal of Aeroacoustics</i> , 2021, 20, 414-436.	0.8	1
56	Sound Quality Prediction of Vehicle Interior Noise During Acceleration Using Least Square Support Vector Machine. <i>Journal of Applied Sciences</i> , 2013, 13, 2288-2293.	0.1	1
57	Roughness Evaluation Approach for Nonstationary Vehicle Noise Based on Wavelet Packet and Neural Network Techniques. <i>International Journal of Acoustics and Vibrations</i> , 2018, 23, .	0.3	1
58	A Test Method for Acoustic Emission Properties of Natural Cellulose Fiber-Reinforced Composites. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12067.	1.3	1
59	Performance analysis of front rubber bushing stiffness of lower control arm on McPherson Suspension. , 2009, , .		0
60	A Method to Measure the Dynamic Response Time for an Electronic Fuel Injector. <i>Applied Mechanics and Materials</i> , 0, 44-47, 1563-1567.	0.2	0
61	Influence of Front Double Wishbone Independent Suspension Performance on Front Rubber Bushing Stiffness of Lower Control Arm. , 2010, , .		0
62	Research on Modeling Method for Static Strength FEA of Automobile Seat Recliner Assembly. , 2011, , .		0
63	Computations of Transient Flows and Sprays of Port Fuel Injector. <i>Applied Mechanics and Materials</i> , 0, 130-134, 3636-3639.	0.2	0
64	Influence of Outer Rubber Bushing Stiffness of the Lateral Rod on Multi-Link Independent Suspension Performance. <i>Advanced Materials Research</i> , 2011, 211-212, 57-61.	0.3	0
65	Experimental and Study of an Direct-Injection, Single Fuel CNG Engine. <i>Advanced Materials Research</i> , 2011, 225-226, 207-211.	0.3	0
66	Influence of Outer Rubber Bushing Stiffness of the Under Control Arm on Multi-link Independent Suspension Performance. , 2011, , .		0
67	A Study on Static Features of a High-Speed Solenoid Valve Used in Diesel Engine. <i>Applied Mechanics and Materials</i> , 0, 189, 393-397.	0.2	0
68	The Analysis of Structural Strength of UD Clutch Hub Assembly. <i>Applied Mechanics and Materials</i> , 0, 303-306, 2754-2757.	0.2	0
69	Sound Field Simulation and Optimization at an Underground Subway Station. <i>Building Acoustics</i> , 2013, 20, 243-253.	1.1	0
70	Acoustical design for public address announcements in an underground subway station. <i>Noise Control Engineering Journal</i> , 2014, 62, 275-282.	0.2	0
71	Simulation and Optimization for Interior Sound Field of a Rail Vehicle. <i>Noise and Vibration Worldwide</i> , 2014, 45, 8-14.	0.4	0
72	Evaluation Method of Instantaneous Acoustic Quality of Automobile Latch Based on BP Neural Network. , 2019, , .		0

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73	Simulation Research of Gear Recovery Noise in Electric Opening Branch with the Vehicle Door Latch. , 2019, , .		0
74	Performance Analysis of Rear Rubber Bushing Stiffness of Lower Control Arm on McPherson Suspension. , 0, , 395-400.		0
75	A hybrid wave superposition method based on particle filter. Applied Acoustics, 2022, 194, 108806.	1.7	0